JC10 Rec'd PCT/PTO 3 1 DEC 2001

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED / ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER
P67528US0

US APPLIATION NO. (16 kg/m, 10 32 CFR, 1.5) 6 4

INTERNATIONAL APPLICATION NO.
PCT/RU00/00267

INTERNATIONAL FILING DATE
30 June 2000

PRIORITY DATE CLAIMED

30 June 1999

TITLE OF INVENTION

MEDICAL FABRIC WITH VIRUCIDAL AND ANTIMICROBIAL ACTION AND ARTICLES THEREFROM

APPLICANT(S) FOR DO/EO/US

1) Zinaida Yulianovna KOZINDA,

2) Yelena Grigoryevna SUVOROVA, 3) Mikhail Vasilyevich STRUKOV

4) Aleksandr Vladimirovich SEDOV 5) Sergei Fedorovich GONCHAROV

Applicant herein submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information.
none and other anomation.
1. This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.
2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.
This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay
examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. A proper Demand for Internatt. Preliminary Examination was made by the 19th month from earliest claimed priority date.
5. A copy of the International Application as filed (35 U.S.C. 371(c)(2))
a. is transmitted herewith (required only if not transmitted by the International Bureau). b. has been transmitted by the International Bureau.
c. is not required, as the application was filed in the United States Receiving Office (RO/US)
A translation of the International Application into English (35 U.S.C. 371(c)(2)). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
a. are transmitted herewith (required only if not transmitted by the International Bureau).
b. have been transmitted by the International Bureau.
a. are transmitted herewith (required only if not transmitted by the International Bureau). b. have been transmitted by the International Bureau. c. have not been made; however, the time limit for making such amendments has NOT expired.
d. have not been made and will not be made.
A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
A translation of the annexes to the Internatl. Preliminary Examination report under PCT Article 36 (35 U.S.C. 371(c)(5)).
Items 11. to 16. below concern other document(s) or information included:
11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. An assignment document for recording. A separate cover sheet compliance with 37 CFR 3.28 and 3.31 is included.
13. A FIRST preliminary amendment.
☐ A SECOND or SUBSEQUENT preliminary amendment.
14. A substitute specification.
15. A change of power of attorney and/or address letter.
16. Other items or information:
International Search Report – Russian Patent Office
First Page of Publication

US APPLICATION NO.(If Twn 508 37 CFF) 5	19464	INTERNATIONAL APPLICATION NO PCT/RU00		P67528	
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17. J The following fees	s are submitted:		İ		
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International preliminary (a) (4)) and all claims sat					
Search Report prepared	by the EPO or JPO (37	7 CFR 1.492 (a) (5)) .	\$890.00		
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Surcharge of \$130.00 for 20 20 30 months from	furnishing the oath or			\$ 130.00	
Claims	Number Filed	Number Extra	Rate		
Total Claims	5 - 20 =	-0-	x \$18.00	\$	
Independent Claims	2 - 3 =	-0-	x \$84.00	\$	
Multiple Dependent Clair	n(s) (if applicable)		+ \$280.00	\$	
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JC13 Rec'd PCT/PTO 3 1 DEC 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Zinaida Yulianovna KOZINDA et al

Serial No.:

New

Filing Date:

December 31, 2001

For:

MEDICAL FABRIC WITH VIRUCIDAL AND ANTIMICROBIAL ACTION

AND ARTICLES THEREFROM

PRELIMINARY AMENDMENT

Assistant Commissioner of Patents Washington, D.C. 20231

Sir:

TOTAL PARTOCAL

Prior to initial examination, please amend the above-identified application as follows:

IN THE SPECIFICATION

Please insert the following sentence on line 1, immediately following the title:

--This is a nationalization of PCT/RU00/00267, filed June 30, 2000 and published in Russian.--

REMARKS

The foregoing Preliminary Amendment is requested in order to place the examination in better form for examination.

Early action on the merits is respectfully requested.

Respectfully submitted,

JACOBSON HOLMAN PLLC

Bv

John C. Hollmar

Reg. No. 22,

400 Seventh Street, N.W. Washington, D.C. 20004-2201

(202) 638-6666

Atty. Docket: P67528US0 Date: December 31, 2001

JCH:jrc

MEDICAL FABRIC WITH VIRUCIDAL AND

ANTIMICROBIAL ACTION AND ARTICLES THEREFROM

The present invention relates to the field of medicine, namely, to prevention and prophylaxis of infection/inflammatory diseases caused by impact of adverse microbiological factors, by means of providing a medical material and products made therefrom having virucidal and antimicrobial activity.

Clothes, personal hygiene articles such as bed-linen, towel, diapers, napkins, gloves, hosiery, etc., having antimicrobial activity are requisite not only in medical institutions, such as hospitals, burn centres, maternity hospitals, in emergency situations, in cases of epidemics, but also in household. In household, these articles are used as prophylactic means reducing the possibility of falling ill and relapse occurrences. For workers of medical institutions these article are requisite for diminishing the danger of spreading in-hospital infection, being in a prolonged position at the working place without the possibility to change the clothes, as articles from antimicrobial material are conducive to disruption of epidemical path of disease transfer through human clothes, as well as to prevent repeated autoinfection.

An antimicrobial material comprising a base of natural fibres and sanguiritrine which is used both in medicine and in sanitary. The method for producing this material, comprising impregnating the natural fibres with sanguiritrine and subsequent drying it. (USSR author's certificate 1771750, Cl. A 61 L 15/00, 30.10.1992).

However, these modifications do not possess antimicrobial activity to a vast group of microorganisms and fungi and fail to retain their properties after washing.

The known materials have antimicrobial activity with respect to gram-positive, gramnegative microorganisms and fungi, including viruses/infection agents not having cellular structure and being distinguished by extremely small sizes and capable to pass through bacteria retaining filters and pertaining to dressing.` The technical solution closest to the claimed one is the textile material having antimicrobial activity and made from bactericidal fibres of 3,4,4-trichluorocarbanilide, tinorganic compounds and hexachlorophene. This material is intended for clothes and underwear sewing. However, these materials are toxic which does not make it possible to employ them as a prophylactic antimicrobial material, and they have a narrow activity range. (USSR author's certificate 317660, Cl. A 61 L 15/00, 19.10.1971).

The object of the present invention is providing a material and personal hygiene articles made from it that would have biological activity with respect of a number of grampositive, gram-negative groups, pathogenic fungi and with respect to group F/RK/8/34 microvirues, eteroviruses (type III polyomyelitis and A hepatitis) without any toxic effect on the human organism and laundry-resistant.

This objet is achieved by manufacturing the article (clothes, personal hygiene articles such as bed-linen, towel, diapers, napkins, gloves, hosiery, etc.) from a fabric containing a sorbed or fabric chemically associated biologically active agent, a quadruple ammonium base with 10-18 carbon atoms, Catamin AB and polyatomic alcohol with the component wt. % ratio of:

Catamin AB - 0.06-0.075

Polyatomic alcohol - 0.03-0.038

Catamin AB, alkyldimethylbenzyl ammonium chloride (synonym, Rockal) is an antiseptic and relates to cationic surfactants. $[R(CH_3)_2(CH_2C_6H_5)N]^{+}CI^{-}$ R-mixture of $C_{10}H_{21}$ - $C_{18}H_{37}$ or $C_{12}H_{25}$ - $C_{14}H_{29}$ straight-chain alkyl groups. Medium molar weight of Catamin AB is 361 ± 15 g/mole. Technical specification TU 2482-012-1316 4401-94.

Cotton, wool, polyamide, mixed fibre materials and other materials used in medicine may serve as the material.

Embodiment 1 of the Invention

Cotton fabric is periodically treated with a 0.9% antiseptic Catamin AB aqueous solution of the solids weight in the presence of 0.038% of polyatomic alcohol. Sorption is carried out during a time period of more than 30 minutes. After which the material produced is dried. Whereby concentration of the sorbed active substance is about 0.06% of the material weight.

Embodiment 1 of the Invention

Woollen fabric is treated according to operation of the method described in Embodiment 1, whereby antiseptic is used in concentration of 1.5% of solids weight, the polyatomic alcohol is in the amount of 0.038%. Concentration of the active sorbed substance on the material is 0.075% of the material weight.

Embodiment 3 of the Invention

Polyamide fabric is treated with Catamin AB 1.2% and polyatomic alcohol 0.035% aqueous solution periodically for 60 minutes, followed by drying the material produced. Concentration of Catamin AB was 0.07% of the material weight.

Examples of producing and properties of the material are provided in the table.

The material produced is used to manufacture articles such as clothes, personal hygiene items, bed-linen, towel, diapers, napkins gloves, hosiery, etc.

This material has no toxic effect on humans, does not affect human immune system, promotes more rapid curing of the patient and prevents disease relapses, which is supported by its use in burn centres and by prophylactic use under household conditions.

Ten patients having II and III degree burns were being cured on cots provided with sheets made from this material. Observations have shown that epidermis recovery occurs after 10-12 days. Healing is without secondary stretching.

When using medicinal gloves and socks made from this material, after nail removal in treating nail mycosis, a significant relapse reduction (down to 75%) was observed as well as accelerated recovery of nail bed epidermis.

The use of antimicrobial clothes in clinics by medical personnel 2-4 times reduces seeding of smocks, suits and other clothes. Thus, it enhances protection of medical personnel against microbial factor and prophylaxis of in-hospital infections.

Thus, articles manufactured from this material are capable of speeding-up the process of curing patients having diseases caused by a number of gram-positive and gram-negative groups of microorganisms, pathogenic fungi, as well of acting prophylactically when there exists the possibility of their proliferation.

Table

	catamin	Aron of inh	ibition of org	oniom growt	h mm		rable
	content	golden staphyloco		Colon baci		Yeast fungi	
	% of material	before	after 15	before	after 15	before	after 15
	weight	washing	washings cotto	washing	washings	washing	washings
1	0,06	4	4	2,5	1,5	2,5	2
2			5		2	3	3
	0,065	5,5		2,5			
3	0,07	6,5	6	3,5	3	3,5	3
4	0,075	7	7	4,5	4	4	3,5
			WO	ol			
1	0,06	4	3,5	2,5	2	2,5	2,5
2	0,065	5	4,5	3	2,5	3	2,5
3	0,07	6,5	6	3,5	3	4	3,5
4	0,075	7,5	7	4	3,5	4	4
		1	polyar	nide			
1	0,06	4	3,5	2,5	1,5	2,5	2
2	0,065	4	3	3	2,5	3	2,5
3	0,07	4,5	4	3,5	3	3,5	3
4	0,075	5	5	4,5	4	4	4
		cotto	on 50% - po	olyamide 50	0%	• • • • • • • • • • • • • • • • • • • •	1
1	0,06	4,0	3,50	2,5	2,0	2,5	2,0
2	0,065	4,5	4,00	2,7	2,5	3,0	2,5
3	0,07	5,0	4,50	3,0	3,0	3,5	3,0
4	0,075	6,0	5,00	4,0	3,5	4,0	3,5
		cott	on 50% - p	olyester 50	%	•	
1	0,06	3,0	3,0	2,5	1,5	2,0	1,5
2	0,065	3,6	3,5	2,5	2,0	2,0	2,0
3	0,07	4,0	3,5	3,0	2,0	2,5	2,0
4	0,075	4,2	4,0	3,0	2,5	3,5	2,5
			ol 50% - po	lyamide 50			
1	0,06	4,0	3,5	2,5	2,0	2,0	2,0
2	0,065	4,5	3,5	3,0	2,0	2,0	2,0
3	0,07	5,0	4,0	3,5	2,5	3,5	3,0
4	0,075	5,5	4,5	4,0	3,0	4,0	3,0

CLAIMS

1. A medical material on the base of natural fabrics with an antimicrobial substance, characterised in that it comprises, as the antimicrobial substance, a quadruple ammonium base having 10-18 carbon atoms, Catamin AB, and polyatomic alcohol with the following component ratio, wt. % of the material weight:

Quadruple ammonium base having 10-18 carbon atoms,

Catamin AB

- 0.06-0.75

Polyatomic alcohol

- 0.03-0.038

2. An article made from a medical material on the base of natural fabrics with an antimicrobial substance, characterised in that it comprises, as the antimicrobial substance, a quadruple ammonium base having 10-18 carbon atoms and polyatomic alcohol with the following component ratio, wt. % of the material weight:

Quadruple ammonium base having 10-18 carbon atoms,

Catamin AB

- 0.06-0.75

Polyatomic alcohol

- 0.03-0.038

- 3. An article according to claim 2, characterised in that it is formed as surgical articles such as surgical sheets, surgical clothes, mask, covers.
- 4. An article according to claim 2, characterised in that it is formed as private hygiene articles such as bed-linen, towel, diapers, gloves, hosiery.
- 5. An article according to claim 2, characterised in that it is formed as underwear.

ABSTRACT



The invention relates to the field of medicine, namely, to prevention and prophylaxis of infection/inflammatory diseases caused by impact of adverse microbiological factors, by means of providing a medical material and products made therefrom having virucidal and antimicrobial activity.

The medical material on the basis of natural fabrics with an antimicrobial substance as the antimicrobial substance comprises a quadruple ammonium base having 10-18 carbon atoms, Catamin AB, and a polyatomic alcohol, with the following component ratio, wt. % of the material weight:

Quadruple ammonium base having 10-18 carbon atoms,

Catamin AB

- 0.06-0.75

Polyatomic alcohol

- 0.03-0.038

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101	As a below named inventor, I declare that my residence, post office address and first and sole inventor (if only one name is listed at 201 below), or an onginal, first an matter which is claimed and for which patent is sought on the invention entitled:	citizenship are stated below nex nd joint inventor (if plurat invento	t to my name, the	information given l ow at 201-203, or o	nerem is true, that I t n additional sheets a	pelieve that I am the original, trached hereto) of the subject
$\overline{}$	"Medical fabric with virucidal and ar	timicrobial ac	tion and	articles	therefor	-m11
102	which is described and claimed in: X PCT International Application		، 0267		filed 30 Ju	ne 2000
	the attached specification the specification in application				filed	
	(If applicable) and amende					
	I hereby state that I have reviewed and understand the contents of the above-der		e claims, as amer	ided by any ameno	iment referred to abo	ove.
	I acknowledge the duty to disclose information which is material to patentability at I hereby claim foreign priority benefits under Title 35, United States Code, §119 (a foreign application for patent or inventor's certificate having a filling date before th	s defined in Title 37, Code of Fe a)-(d) of any foreign application	ederal Regulations (s) for patent or in	s, §1.56.		
	Prior Foreign Application(s)				Priority Clair	ned
	99113369 RUS	SIA 3	O June	1999	\mathbf{x}	
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103						
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104	I hereby claim the benefit under Title 35, United States Code,§119(e) of any Unite	ed States provisional application	n(s) listed below:			
티	Application No. Filing Date	Applica	ition No.		Filing Date	
\exists	I hereby claim the benefit under Tille 35, United States Code, §120 of any United			the subject matter	of each of the claim	s of this application is not
105	disclosed in the prior United States application in the manner provided by the first patentability as defined in Title 37, Code of Federal Regulations. §1.56 which becapilication:	paragraph of Title 35, United S	States Code, §112	, I acknowledge the	e duty to disclose inf	ormation which is material to
	(Application Senal No.)	(Filing Date)	-	(Status: pate	ented, pending, abar	ndaned)
ager R. S	/EROF ATTORNEY: As a named inventor, I hereby appoint the follow it, and transact all business in the Patent and Trademark Office connect ERNI/(20,640); ALLEN S. MELSER (27,215); MICHAEL R. SLOBASKY (99)*OON S. HAM (45,307) and NATHANIEL A. HUMPHRIES (22,77)	ted therewith. HARVEY 6, (26,421); JONATHAN L. SC	JACOBSON.	IR. (20.851): JO	HN CLARKE HOL	MAN (22,769); MARVIN
	SEND CORRESPONDENCE TO: CUSTOMER NO. 00136			ELEPHONE CAL		202) 629 6666
	JACOBSON HOLMAN		(pies	ese use Attorney	's Docket No.) (2	(02) 636-6666
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	AND SEVENTU STORET N W		PF	ROFESSIONAL	LIMITED LIABILI	TY COMPANY
<u></u>	WASHINGTON, D.C. 20004					
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Additional inventors are named on separately numbered sheets attached hereto.

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The attached specification the expectituation applications Serial Ms. filled	The attached apecification	The attached specification Despecification in application Serial No. (if application) and amended and invalidation (if application) and amended and amended and invalidation (if application) (if	which is described and claimed in:	X PCT International Applica	ation No. PCT/RUOO	/00267	filed 30 Ju	ne 2000
The processed and understand fine contents of the above-identified spotCatalon, including the datums, as amended by any monotrement referred to above. Addressed the day to disclose information which is maintain to patentiately as address in Tills 47, Code of Pederal Regulations, § 1.58. The process of the processed and understand fine contents of the above-identified spotCatalon, for code of rederal Regulations of patent or inventor's certificate federal below and have also identified below the patent of the application for patent or inventor's certificate federal below and that also identified below that of the application or maint promity is ceimined. Priority California Priority Califor	The property state that I have reviewed and understands the contents of the above-individual specification. Including the diame, as entented by any arrendment referred to above, activities of the above individual specification. Including the diame, as entented by any arrendment referred to above, activities of the above individual specification. Including the diame, as entented by the diameter individual including the above individual specification. In the above individual specification for plate of trivenior's certificate below and have also identified below the property and property of the propert	interest y falls that I have reviewed and understand the content of the acceptance o	the attached specification	=				
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R PATTORNEY: As a named inventor, I hereby appoint the following attorneys (Registration No.) to prosecute this application, receive and act on instructions from an instructions from an instructions from an instructions from an instruction of the patent and Trademark Office connected therewith. HARVEY 8. JACOBSON, JR. (20,851); JOHN CLARKE HOLMAN (22,769); MR (20,801); MR (45,907) and NATHANIEL A. HUMPHRIES (22,772). SEND CORRESPONDENCE TO: CUSTOMER NO. 00136 SEND CORRESPONDENCE TO: CUSTOMER NO. 00136 Of JACOBSON HOLMAN PROFESSIONAL LIMITED LIABILITY COMPANY 400 SEVENTH STREET, N.W. WASHINGTON, D.C. 20004 JACOBSON HOLMAN PROFESSIONAL LIMITED LIABILITY COMPANY 400 SEVENTH STREET, N.W. WASHINGTON, D.C. 20004 JACOBSON HOLMAN PROFESSIONAL LIMITED LIABILITY COMPANY 400 SEVENTH STREET, N.W. WASHINGTON, D.C. 20004 JACOBSON HOLMAN PROFESSIONAL LIMITED LIABILITY COMPANY 400 SEVENTH STREET, N.W. WASHINGTON, D.C. 20004 JACOBSON HOLMAN PROFESSIONAL LIMITED LIABILITY COMPANY 400 SEVENTH STREET, N.W. WASHINGTON, D.C. 20004 JACOBSON HOLMAN PROFESSIONAL LIMITED LIABILITY COMPANY PROFESSIONAL LIMITED LIABILITY COMPANY JACOBSON HOLMAN PROFESSIONAL LIMITED LIABILITY COMPANY PROFESSIONAL LIMITED	R PATTORNEY: As a named inventor, I hereby appoint the following attorneys (Registration No.) to prosecute this application, receive and act on instructions for and transact all business in the Patent and Trademark Office connected therewith. HARVEY B. JACOBSON, JR. (20,851), Sept. 100. CLARKE HOLMAN (22,759); MPR (20,861), LLENS, MELSERGE (72,159), MICHAEL R. SLOBASKY (28,421); JONATHAN L. SCHERER (29,851); IRVINIM AISENBERG (19,007); WILLIAM E. PL. (45,907) and NATHANIEL A. HUMPHRIES (22,772) SEND CORRESPONDENCE TO: CUSTOMER NO. 00136 OF JACOBSON HOLMAN PROFESSIONAL LIMITED LIABILITY COMPANY 400 SEVENTH STREET, N.W. WASHINGTON, D.C. 20004 JACOBSON HOLMAN PROFESSIONAL LIMITED LIABILITY COMPANY 400 SEVENTH STREET, N.W. WASHINGTON, D.C. 20004 JACOBSON HOLMAN PROFESSIONAL LIMITED LIABILITY COMPANY 400 SEVENTH STREET, N.W. WASHINGTON, D.C. 20004 JACOBSON HOLMAN PROFESSIONAL LIMITED LIABILITY COMPANY 400 SEVENTH STREET, N.W. WASHINGTON, D.C. 20004 JACOBSON HOLMAN PROFESSIONAL LIMITED LIABILITY COMPANY A 100 SEVENTH STREET, N.W. WASHINGTON, D.C. 20004 JACOBSON HOLMAN PROFESSIONAL LIMITED LIABILITY COMPANY A 100 SEVENTH STREET, N.W. WASHINGTON, D.C. 20004 JACOBSON HOLMAN PROFESSIONAL LIMITED LIABILITY COMPANY A 100 SEVENTH STREET, N.W. WASHINGTON, D.C. 20004 JACOBSON HOLMAN PROFESSIONAL LIMITED LIABILITY COMPANY PROFES	R OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys (Registration No.) to prosecute this application, receive and act on instructions for inflationated all business in the Patent and Trademark Office connected therewith. HARVEY'S. JACOBSON, IR. (20.851); JOHN CLARKE HOLMAN (22.785); MAY (23.051); MAY (23.0	atentability as defined in Title 37, Code o		became available between the filing	date of the pnor application	and the national or PCT in	ntemational filing date o
and transact all business in the Patent and Trademark Office connected therewith. HARVEY B. JACOBSON, JR. (20,851); JOHN CLARKE HOLMAN (22,769); MAR (20,860), ALLEN S. MELSER (27,215); MICHAEL R. SLOBASKY (28,421); JONATHAN L. SCHERER (29,851); IRWIN M. AISENBERG (19,007); WILLIAM E. PLYSTON S. HAM (45,307) and NATHANIEL A. HUMPHRIES (22,772) SEND CORRESPONDENCE TO: CUSTOMER NO. 00136 Or JACOBSON HOLMAN PROFESSIONAL LIMITED LIABILITY COMPANY 400 SEVENTH STREET, N.W. WASHINGTON, D.C. 20004 PROFESSIONAL LIMITED LIABILITY COMPANY 400 SEVENTH STREET, N.W. WASHINGTON, D.C. 20004 STATE OR FOREIGN COUNTRY RUSSIA STATE OR COUNTRY OF CITIZENSHIP RUSSIA STATE OR COUNTRY OF CITIZENSHIP STOFFICE POST OFFICE ADDRESS U.1. Planermaya, d. 18, k. 1, MOSCOW STATE OR FOREIGN COUNTRY RUSSIA STATE OR COUNTRY OF CITIZENSHIP RUSSIA STATE OR FOREIGN COUNTRY RUSSIA STATE OR COUNTRY OF CITIZENSHIP RUSSIA RUSSIA STATE OR COUNTRY OF CITIZENSHIP RUSSIA RUSSIA RUSSIA RUSSIA ADDRESS 2 Polevoi per., d. 7, Moscow RUSSIA R	and transact all business in the Patent and Trademark Office connected therewith. HARVEY B. JACOBSON, JR. (20,851); JOHN CLARKE HOLMAN (22,769); MR (20,861); ACOBSON, JR. (20,851); JOHN CLARKE HOLMAN (22,769); MR (20,861); ACOBSON, JR. (20,851); JOHN CLARKE HOLMAN (22,769); MR (20,861); ACOBSON, JR. (20,851); JOHN CLARKE HOLMAN (22,769); MR (20,851); JOHN CLARKE HOLMAN (23,007); MR (24,007);	and transact all business in the Patent and Trademark Office connected therewith. HARVEY 8. JACOBSON, JR. (20,691; JOHN CLARKE HOLMAN (22,769); MAY (20,691; MAY (20,691);	and the second			•	•	•
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